CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SSK/16/2021-22

Date:21.10.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. S Santhosh Kumar,** Contractor, Bangalore.

Name of Work : Comprehensive development and maintenance of roads and drains in Soumyashri Badavane and surrounding areas in ward no.16 Jalahalli, BBMP, Bangalore.

Sample ID: : Cement (Chettinad 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : September - 2021

Date of Testing : 19.10.2021 to 21.10.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	365 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50%	-

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ಯಲಹಂಕಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Authorised Signatory

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ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CCQCE/BBMP/SSK/16/2021-22 Date : 21.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency : **Sri. S Santhosh Kumar,** Contractor, Bangalore.
Name of Work : Comprehensive development and maintenance of roads and drains in Soumyashri Badavane and surrounding areas in ward no.16 Jalahalli, BBMP, Bangalore.

Date of Testing : 21.10.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	96	9.60	9.60	90.4	90-100
2.36	105	10.50	20.10	79.9	75-100
1.18	154	15.40	35.50	64.5	55-90
600 Micron	238	23.80	59.30	40.7	35-59
300 Micron	176	17.60	76.90	23.1	8-30
150 Micron	182	18.20	95.10	4.9	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CCQCE/BBMP/SSK/16/2021-22

Date : 21.10.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. S Santhosh Kumar,** Contractor, Bangalore.

Name of Work : Comprehensive development and maintenance of roads and drains in Soumyashri Badavane and surrounding areas in ward no.16 Jalahalli, BBMP, Bangalore.

Date of Testing : 21.10.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	213	1.42	1.42	98.58	95-100
20	8205	54.70	56.12	43.88	30-70
10	3167	21.11	77.23	22.77	10-35
4.75	2854	19.03	96.26	3.74	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CCQCE/BBMP/SSK/16/2021-22

Date : 21.10.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. S Santhosh Kumar,** Contractor, Bangalore.

Name of Work : Comprehensive development and maintenance of roads and drains in Soumyashri Badavane and surrounding areas in ward no.16 Jalahalli, BBMP, Bangalore.

Date of Testing : 21.10.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	207	4.1	4.1	95.9	95-100
10	2895	57.9	62.0	38.0	25-55
4.75	1623	32.5	94.5	5.5	0-10

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Job No.: CQCE/BBMP/SSK/16/2021-22

Date : 21.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. S Santhosh Kumar,** Contractor, Bangalore.

Name of Work : Comprehensive development and maintenance of roads and drains in Soumyashri Badavane and surrounding areas in ward no.16 Jalahalli, BBMP, Bangalore.

Date of Testing : 21.10.2021

Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	19	1.90	1.90	98.1	95-100
2.36	15	1.50	3.40	96.6	95-100
1.18	27	2.70	6.10	93.9	90-100
600 Micron	96	9.60	15.70	84.3	80-100
300 Micron	252	25.20	40.90	59.1	20-65
150 Micron	473	47.30	88.20	11.8	0-15

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Job No.: CQCE/BBMP/SSK/16/2021-22

Date : 21.10.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. S Santhosh Kumar,** Contractor, Bangalore.

Name of Work : Comprehensive development and maintenance of roads and drains in Soumyashri Badavane and surrounding areas in ward no.16 Jalahalli, BBMP, Bangalore.

Date of Testing : 21.10.2021

Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	21	2.10	2.10	97.9	90-100
1.18	18	1.80	3.90	96.1	70-100
600 Micron	91	9.10	13.00	87.0	40-100
300 Micron	245	24.50	37.50	62.5	5-70
150 Micron	501	50.10	87.60	12.4	0-15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/SSK/16/2021-22

Date: 29.10.2021

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Contractor	:	**Sri. S Santhosh Kumar,** Contractor, Bangalore.
Name of Work	:	Comprehensive development and maintenance of roads and drains in Soumyashri Badavane and surrounding areas in ward no.16 Jalahalli, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	29.10.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	76.00	0.346	2318.64	1.52	0.948	34.50	17.57	18.98	17.99	22.49
2	50.00	79.00	0.365	2353.08	1.58	0.955	35.70	18.18	19.64	18.75	23.43
3	50.00	82.00	0.383	2378.78	1.64	0.961	36.10	18.39	19.86	19.08	23.86

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Job No.: CQCE/BBMP/SSK/16/2021-22

Date: 29.10.2021

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Contractor	:	**Sri. S Santhosh Kumar,** Contractor, Bangalore.
Name of Work	:	Comprehensive development and maintenance of roads and drains in Soumyashri Badavane and surrounding areas in ward no.16 Jalahalli, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	29.10.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	114.00	1.681	2317.86	1.27	0.921	111.40	17.51	18.91	17.41	21.77
2	90.00	118.00	1.763	2348.53	1.31	0.926	113.60	17.86	19.29	17.85	22.31
3	90.00	121.00	1.828	2374.74	1.34	0.929	115.80	18.20	19.66	18.27	22.83

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Job No.: CQCE/BBMP/SSK/16/2021-22 Date: 29.10.2021

KERB STONE (CORE) TEST REPORT

Client	:	**Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	:	**Sri. S Santhosh Kumar,** Contractor, Bangalore.
Name of Work	:	Comprehensive development and maintenance of roads and drains in Soumyashri Badavane and surrounding areas in ward no.16 Jalahalli, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	29.10.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	84.00	0.381	2310.02	1.68	0.965	25.60	13.04	14.08	13.59	16.99
2	50.00	86.00	0.399	2362.90	1.72	0.970	24.10	12.27	13.26	12.86	16.07
3	50.00	88.00	0.412	2384.43	1.76	0.974	26.60	13.55	14.63	14.25	17.81

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